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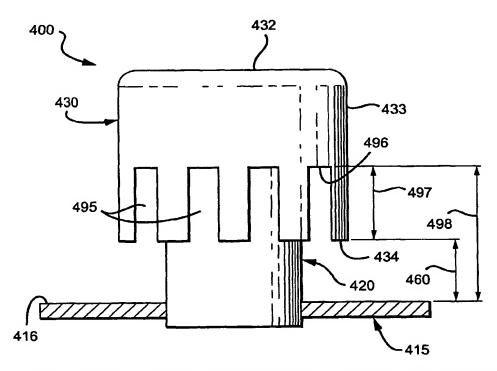
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(54) Title: METHODS AND APPARATUS FOR MIXING FLUIDS



(57) Abstract: A bubble cap (400) has a cap (430) with at least one slot (495) and a riser(420), configured with a skirt height (460) of at least 4 cm, such that 1.5 * Skirt Height (cm) + [Slot Length (cm) - Exposed Slot Height (cm)] is greater than or equal to 7.5, and posed such that a liquid fluid and a gas flow co-currently upwardly in a space between the riser (420) and the cap (430).



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